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DATE MAILED: 04/20/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

35884 7590 04/20/2009 LEE, HONG, DEGERMAN, KANG & WAIMEY

660 S. FIGUEROA STREET Suite 2300 LOS ANGELES, CA 90017

EXAMINER				
WONG, BLANCHE				
ART UNIT	PAPER NUMBER			
2419				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	l
10/668,632	09/23/2003	Seung June Yi	2101-3054	2199	
TITLE OF INVENTION:	RADIO COMMUNICATIO	N SCHEME FOR PROVIDING MULTIMEDIA BROAD	CAST AND MULTICAST S	ERVICES	

(MBMS)

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/20/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	of transmitting the 1330 ig the Patent, advance of herwise in Block 1, by (a	rders and notification of a) specifying a new corr	maintenance fees v espondence address:	vill be and/o	mailed to the current r (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for
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LOS ANGELES	s, CA 90017						(Depositor's name)
			-				(Signature)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/668,632 TITLE OF INVENTION (MBMS)	09/23/2003 N: RADIO COMMUNI	CATION SCHEME FOR	Seung June Yi R PROVIDING MULTI	IMEDIA BROADC	AST A	2101-3054 ND MULTICAST SI	2199 ERVICES
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUI	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	07/20/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	7			
WONG, B	LANCHE	2419	370-390000	_			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	"Indication form ed. Use of a Customer A TO BE PRINTED ON		gle firm (having as a agent) and the nam torneys or agents. If he printed. ype) patent. If an assign assignment.	membes of uno nan	per a 2pp to	ocument has been filed for
Please check the appropr	iate assignee category or	categories (will not be pr	inted on the patent):	Individual Co	orporat	ion or other private gro	oup entity 🗖 Government
Advance Order -	wo small entity discount p	permitted)	o. Payment of Fee(s): (Pl A check is enclosed Payment by credit c The Director is herel overpayment, to De	ard. Form PTO-2038	is att	ached.	shown above) ficiency, or credit any n extra copy of this form).
- 11	s SMALL ENTITY state	is. See 37 CFR 1.27.	☐ b. Applicant is no lo				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other than Office.	the applicant; a regi	stered	attorney or agent; or th	ne assignee or other party in
Authorized Signature				Date			
Typed or printed nam	e			Registration N	lo		
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but 'irginia 22313-1450. DC k13-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the O NOT SEND FEES OR (on is required to obtain or 1.14. This collection is e depending upon the ind e Chief Information Offi COMPLETED FORMS	r retain a benefit by t estimated to take 12 to lividual case. Any co cer, U.S. Patent and IO THIS ADDRESS	he pub minute ommen Trader S. SEN	lic which is to file (and is to complete, including the state of the amount of the mark Office, U.S. Dep D TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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35884 7590 04/20/2009			EXAMINER		
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660 S. FIGUEROA STREET			ART UNIT	PAPER NUMBER	
Suite 2300 LOS ANGELES, CA 90017		2419 DATE MAILED: 04/20/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 868 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 868 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/668,632	YI ET AL.	
Examiner	Art Unit	
Blanche Wong	2419	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant See 37 CFR 1.313 and MPEP 1308.

- 1. X This communication is responsive to Amendment in Response to Final Rejection under 37 CFR 1.116 dated March 20, 2009.
- The allowed claim(s) is/are 45-62 (renumbered 1,2,4-10,3,11-15,17,18,16 respectively).
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a)

 All b)

 Some* c)

 None of the:
 - 1. Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paner No /Mail Date

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7.

 Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

Application/Control Number: 10/668,632 Art Unit: 2419

- Claims 45-62 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

With regard to claim 45, the prior art of record fails to anticipate or make obvious a network comprising: "a RLC layer configured to receive data from an upper layer; a MAC layer configured to add a header to the data received from the RLC layer; and a PHY layer configured to receive the header added data from the MAC layer to transmit the header added data to a plurality of terminals via a first downlink physical channel, wherein a second downlink physical channel is provided to transmit control information to the plurality of terminals, wherein the second downlink physical channel comprises TFCI field and a Pilot field to transmit the control information, wherein the controller is a CRNC comprising the RLC layer and the MAC layer, and the base station comprises the PHY layer, wherein the MAC layer comprises a first MAC sub-layer handling a dedicated transport channel and a second MAC sub-layer handling a common or shared transport channel, and the received data is transferred directly from the RLC layer to the second MAC sub-layer, wherein the data is MBMS data, wherein the second MAC sub-layer is capable to support the MBMS service, and wherein the RLC layer operates in a non-responsive mode."

With regard to claim 55, the prior art of record fails to anticipate or make obvious a terminal comprising: "[1] a PHY layer of the terminal configured to receive data via a first downlink physical channel and control information via a second downlink physical

Art Unit: 2419

channel, wherein the PHY layer of the terminal is further configured to receive TFCI information and Pilot information via the second downlink physical channel, wherein the data and the control information are transmitted from a network comprising a CRNC and a base station, wherein the CRNC comprises a RLC layer of the network and a MAC layer of the network, and the base station comprises a PHY layer of the network, wherein the MAC layer of the network comprises a first MAC sub-layer handling a dedicated transport channel and a second MAC sub-layer handling a common or shared transport channel, and the data is transferred directly from the RLC layer of the network to the second MAC sub-layer, wherein the data is MBMS data, wherein the second MAC sub-layer is capable to support the MBMS service, and wherein the RLC layer of the network operates in a non-responsive mode; [2] a MAC layer of the terminal configured to receive the data from the PHY layer of the terminal; and [3] a RLC layer of the terminal."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Blanche Wong whose telephone number is 571-272-3177. The examiner can normally be reached on Monday through Friday, 830am to 530pm.

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Art Unit: 2419

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan Orgad can be reached on 571-272-7884. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Blanche Wong/ Examiner, Art Unit 2419 April 9, 2009

/Edan Orgad/ Supervisory Patent Examiner, Art Unit 2419